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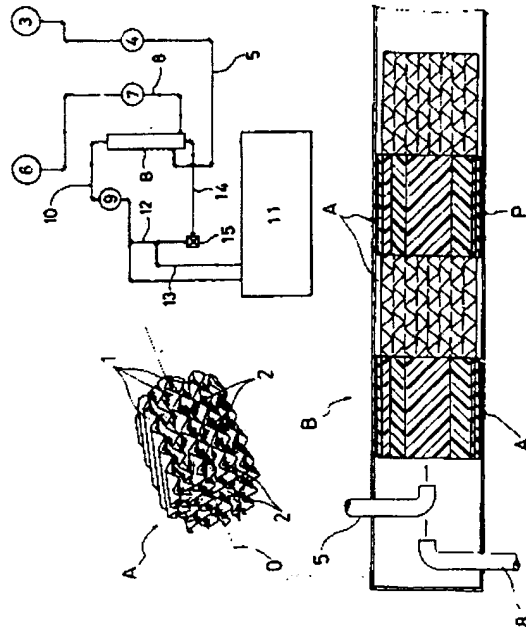
APPLICATION DATE : 29-09-78
APPLICATION NUMBER : 53120959

APPLICANT : KUROMATSU TOKUMITSU;

INVENTOR : KUROMATSU TOKUMITSU;

INT.CL. : B01F 5/00

TITLE : ELEMENT FOR TWO-FLUID MIXER



ABSTRACT : PURPOSE: A mixing element by which the use of rotating vanes can be eliminated and also good mixing effect can be obtained at lower cost.

CONSTITUTION: Heavy oil and kerosene supplied into the mixer B by the pumps 4 and 7 are mixed gradually by a frequent, repetitive combination and separation cycle at a number of intersections in the first and second paths 2 in each laminate A. During the period, the flow direction of mixed fluid at the end portion of the first and second paths 2 is changed by 90° owing to the inclination of 45° of the paths against the axis 0 and also mixed fluid from the first path or the second path is separately flowed into the plural paths 2 at the time when it moves from one laminate A to next laminate A, while the mixed fluids from the plural paths 2 are combined at the one path, thus promoting the mixing action of fluids.

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DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.7)
P,A	US 2002/000067 A1 (NUMATA KOICHI ET AL) 3 January 2002 (2002-01-03) * page 1, right-hand column, paragraph 17 - page 2, left-hand column, paragraph 19; figure 2 *	1	B01J19/24 B01J19/00 B01J35/04 C07C209/36
A	DE 198 58 974 A (DAIMLER CHRYSLER AG) 21 June 2000 (2000-06-21) * column 2, line 26 - column 3, line 40 * * column 3, line 64 - column 4, line 51; figure 1 *	1,2	
A	EP 0 995 489 A (PRAXAIR TECHNOLOGY INC) 26 April 2000 (2000-04-26) * figure 7 *	1,3	
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The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 8 December 2003	Examiner Van Belleghem, W
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document			

**ANNEX TO THE EUROPEAN SEARCH REPORT
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EP 02 01 9084

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report.
The members are as contained in the European Patent Office EDP file on
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